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ABSTRACT OF THE DISCLOSURE

A power supply circuit generates a supply voltage based on an input constant voltage and supplies the supply voltage to a load. A delay circuit delays the input constant voltage. An output circuit generates the supply voltage from the input constant voltage delayed by the delay circuit and supplies the supply voltage to the load. A current generation circuit generates a current based on the supply voltage that is generated by the output circuit and supplies the generated current to the output circuit as a drive current.